processdefs.mESA 24-OCT-77 18:38:25 Page 1

```
-- File ProcessDefs.Mesa
  -- Last edited by Johnsson; May 18, 1977 11:36 AM
  DIRECTORY
    ControlDefs: FROM "controldefs",
    Mopcodes: FROM "mopcodes";
  DEFINITIONS FROM ControlDefs;
  ProcessDefs: DEFINITIONS =
  BEGIN
  -- Special op codes
  BLOCK: MACHINE CODE = INLINE [Mopcodes.zBLOCK];
  ProcessHandle: TYPE = POINTER TO ProcessObject;
  ProcessNIL: ProcessHandle = LOOPHOLE[0];
  ProcessObject: TYPE = PRIVATE RECORD [
           state: StateVector,
           pn: ProcessPriority
  ProcessRegister: PRIVATE TYPE = WORD;
  AP: PRIVATE POINTER TO ProcessRegister = LOOPHOLE[20B];
  RP: PRIVATE POINTER TO ProcessRegister = LOOPHOLE[21B];
  CPN: PRIVATE POINTER TO ProcessPriority = LOOPHOLE[22B]
  WakeupsWaiting: PRIVATE POINTER TO WORD = LOOPHOLE 45281;
  ActiveWord: PRIVATE POINTER TO WORD = LOOPHOLE[453B];
  ProcessVector: PRIVATE TYPE = ARRAY ProcessPriority OF ProcessHandle;
  PV: PRIVATE POINTER TO ProcessVector = LOOPHOLE[40B];
ProcessPriority: TYPE = [0..15];
HighestProcessPriority: ProcessPriority=0;
  LowestProcessPriority: ProcessPriority=14;
  Unscheduled: ProcessPriority=15;
  PriorityNotAvailable: ERROR;
  InvalidPriority: ERROR;
  InvalidProcess: ERROR;
  ProcessNotScheduled: ERROR;
  CreateProcessFromFrame: PROCEDURE [FrameHandle, ProcessPriority] RETURNS [ProcessHandle];
  CreateProcessFromProcedure: PROCEDÜRE [PROCEDURE, ProcessPriority] RETURNS [ProcessHandle];
  SetProcessPriority: PROCEDURE [ProcessHandle, ProcessPriority]; GetProcessPriority: PROCEDURE [ProcessHandle] RETURNS [ProcessPriority];
  GetCurrentProcess: PROCEDURE RETURNS [ProcessHandle];
  GetCurrentPriority: PROCEDURE RETURNS [ProcessPriority];
  EnumerateProcess: PROCEDURE
    [PROCEDURE [ProcessHandle] RETURNS [BOOLFAN]] RETURNS [ProcessHandle];
  DestroyProcess, MakeProcessReady, ActivateProcess,
 DeActivateProcess: PROCEDURE [ProcessHandle];
 DisableInterrupts: MACHINE CODE = INLINE [Mopcodes.zTWDC]; EnableInterrupts: MACHINE CODE = INLINE [Mopcodes.zDWDC];
  END.
```